

**METHOD FOR DETECTING AND TREATING TUMORS USING**  
**LOCALIZED IMPEDANCE MEASUREMENT**

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**ABSTRACT OF THE DISCLOSURE**

10 An embodiment of the invention provides a method for detecting and  
treating a tumor using tissue localized volumetric impedance measurement.  
The method includes providing an impedance measurement apparatus having a  
plurality of resilient members deployable with curvature and configured to  
sample tissue impedance through a plurality of conductive pathways. The  
apparatus is configured to be coupled to at least one of an energy delivery  
device, a power supply, a switching device or logic resources. The apparatus is  
then positioned at a selected tissue site and the impedance array deployed to  
15 define a sample volume. The impedance array is then utilized to make  
impedance measurements through a plurality of conductive pathways.  
Information from the impedance measurements is then utilized to determine a  
tissue condition of the sample volume. Energy is then delivered from the energy  
delivery device to ablate or necrose at least a portion of the tumor.

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